

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A noise cancel circuit for removing noise components in a detected radio signal, comprising:

an interpolation circuit for performing interpolation processing on said detected radio signal, wherein and

an LPF for eliminating low frequency components of the detected radio signal, an output of the LPF being provided to the interpolation circuit and the interpolation circuit performing an interpolation process on the output from the LPF, wherein

during generation of a pulse noise, a noise portion of said detected radio signal is interpolated by an output signal from said interpolation circuit.

2. (Original): The noise cancel circuit defined in Claim 1, wherein said interpolation circuit executes spline interpolation.

3. (Original): The noise cancel circuit defined in Claim 1, further comprising:

a noise detection circuit for detecting the noise portion of said detected radio signal, wherein

the noise portion of said detected radio signal is interpolated by said interpolation circuit according to an output signal from said noise detection circuit.

4. (Previously Presented): The noise cancel circuit defined in Claim 3, further comprising:

a first delay circuit for delaying said detected radio signal;

a selection circuit for selecting either the output signal from said interpolation circuit or the delayed detected radio signal from said first delay circuit, wherein

 said selection circuit is controlled according to the output signal from said noise detection circuit.

5. (Original): The noise cancel circuit defined in Claim 4, wherein
 said interpolation circuit performs interpolation processing and
outputs an interpolation signal regardless of presence or absence of noise
components.

6. (Previously Presented): The noise cancel circuit defined in Claim 5,
further comprising:

 a second delay circuit for delaying said interpolation signal from said
interpolation circuit.

7. (Original): The noise cancel circuit defined in Claim 6, wherein
 said second delay circuit is disposed in a processing stage prior to said
interpolation circuit.

8. (Original): The noise cancel circuit defined in Claim 6, wherein
 a delay time of said first delay circuit corresponds to a sum of an
interpolation processing time of said interpolation circuit and a delay time of said
second delay circuit.

9. (Original): The noise cancel circuit defined in Claim 8, wherein
 the delay time of said second delay circuit corresponds to a difference
obtained by subtracting the interpolation processing time of said interpolation
circuit from a time delay between generation and detection of said pulse noise.

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10. (Previously Presented): The noise cancel circuit defined in Claim 1, wherein the radio signal is an audio signal.